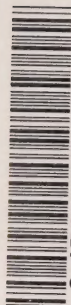


CAI
MT 150
- A55

Government
Publications

ATOMIC ENERGY CONTROL BOARD



3 1761 11648050 0

ANNUAL REPORT
TO THE
COMMITTEE OF THE PRIVY COUNCIL
ON
SCIENTIFIC AND INDUSTRIAL RESEARCH

PERIOD ENDING 31 MARCH 1947

ATOMIC ENERGY CONTROL BOARD

CAI
MT150
- A55

ANNUAL REPORT
TO THE
COMMITTEE OF THE PRIVY COUNCIL
ON
SCIENTIFIC AND INDUSTRIAL RESEARCH

PERIOD ENDING 31 MARCH 1947

ATOMIC ENERGY CONTROL BOARD

Annual Report to the Committee of the
Privy Council on Scientific and Industrial
Research for the period ending 31 March
1947

1. Constitution and membership

The Atomic Energy Control Board was established by the Atomic Energy Control Act 1946, 10 George VI chapter 37, assented to 31 August 1946, and brought into force by Proclamation on 12 October, 1946.

By Section 4 of the Act, it is provided that the Board shall consist of the President for the time being of the National Research Council (presently Dr. C.J. Mackenzie) and four other members to be appointed by the Governor in Council.

By Order in Council P.C. 4045 of 26 September, 1946, the following were appointed to be members of the Board for a term of three years:

General A.G.L. McNaughton
Mr. George C. Bateman

and the following to be members of the Board for a term of two years:

Dr. Paul E. Gagnon
Mr. V.W.T. Scully;

and General McNaughton was appointed President of the Board.

2. Directions from Committee

By directions given by the Committee under section 7 of the Act, the Board has been required to consider and (subject to such approval of the Governor in Council or the Committee as is required by the Act) to deal with the matters with which the Board is, under the Act, required or empowered to deal and in particular with

- (a) the making of rules for regulating the proceedings of the Board and the performance of its functions;
- (b) the appointment and employment of staff required by the Board;
- (c) the assumption of control and direction of the Chalk River (NRX) Project;
- (d) the making and administration of regulations under section 9 of the Act;
- (e) the making of recommendations as to uranium supply and production.

3. Meetings and Organizations

Meetings of the Board have been held as follows:

16, 17 and 18 October 1946, at Ottawa and Chalk River;

6 January, 1947, at Ottawa;

15 March, 1947, at Montreal.

Rules for regulating the proceedings of the Board and the performance of its functions have been made.

The following officers have been appointed:

Assistant to the President (Scientific Adviser) -
Dr. W.R. Sawyer

Legal Adviser and Secretary to the Board - Mr. G.M. Jarvis

Assistant Scientific Adviser - Dr. D.J. Dewar

and a minimum clerical staff has been employed. It has become apparent that an additional scientific officer is needed and that additional staff will be needed in the administration of the regulations hereafter mentioned, but the policy of the Board is to keep staff at the minimum consistent with proper performance of the Board's functions.

4. Chalk River Project

Control and administration of the Chalk River project as from 1 December,

1946, was transferred to the Board under Order in Council P.C. 4600 of 5 November, 1946.

It was arranged that National Research Council would take over operation of the project as from 1 February, 1947, Defence Industries Limited to complete construction of the works then authorized and in hand, additional works to be dealt with by National Research Council.

The take-over of operation was accomplished without interruption of the work and both operation and completion of construction are proceeding satisfactorily.

5. Control of Radio-active Substances

Pending the making of regulations by the Board, control of Radio-active substances was continued by the Controller in close consultation with the Board. The Secretary of the Board was appointed Controller as from 5 December 1946.

6. Regulations

Regulations under section 9 of the Act were adopted by the Board at its meeting on 15 March, 1947, were approved by the Governor in Council to come into force 1 April 1947, and were laid before Parliament on 2 April, 1947. They provide for control of dealings in prescribed substances and in equipment specially designed or adapted for use in relation to atomic energy; for keeping the Board informed as to dealings in such substances and equipment; for security as to information, health, property and patent rights; for procedure for requisition and expropriation by the Board, for assistance to research and investigation; and for administration and enforcement of the regulations.

1946, was transferred to the Board under Order in Council P.C. 1003 of 5 November, 1946.

It was arranged that National Research Council would take over operation of the project as from 1 February, 1947, before initiation limited to complete construction of the works then authorized and in hand, additional works to be dealt with by National Research Council. The take-over of operation was accomplished without interruption

of the work and both operation and completion of construction was proceeding satisfactorily.

5. Control of Radio-active Substances

Following the setting of regulations by the Board, control of

Digitized by the Internet Archive
in 2023 with funding from
University of Toronto

6. Regulations

Regulations under section 5 of the Act were adopted by the Board at its meeting on 15 March, 1947, were approved by the Governor in Council on June 19th 1947, and were laid before Parliament on 2 April, 1947. They provide for control of substances

prescribed substances and in equipment specially designed or adapted

for use in relation to atomic energy; for keeping the Board informed

as to designs in such substances and equipment; for security as to

information, health, property and labour rights; for measures for

regulation and expatriation by the Board, for assistance to research

and investigation; and for administration and enforcement of the

7. Uranium supply and production

With the cooperation of directors and officers of Eldorado Mining and Refining (1944) Limited and of the Department of Mines and Resources, the situation as to uranium supply and production has been under review and the Board has made recommendations to the Committee. For obvious reasons, it is not in the public interest that specific information in this field should be published at this time.

8. Assistance to Research

Subject to the appropriation by Parliament of the necessary funds, the Board proposes to make grants-in-aid for nuclear research during the fiscal year 1947-48 as follows:

to McGill University, which is installing a 100,000,000 electron volt cyclotron -- \$87,500.

to The University of Saskatchewan, to assist in the provision of a 20,000,000 electron volt betatron -- \$30,000.

to the University of British Columbia, to assist in the provision of a Van de Graaf generator and linear accelerator -- \$32,500.

In each case, the Board is satisfied that the necessary staff, buildings and ancillary equipment will be available for the effective use of the facilities, and that no duplication of existing Canadian research projects is involved.

9. Encouragement to Prospecting

It was not found practicable to make regulations for the encouragement of prospecting, owing largely to uncertainty as to the international situation, but the position is being kept under continuous observation, in cooperation with the Department of Mines and Resources and Eldorado.

10. Liaison with other bodies

The Board has received and is receiving the fullest cooperation from all Dominion Government Departments and agencies in the performance of its duties. It is also establishing effective liaison with the United Kingdom and United States authorities in the atomic energy field. It has not yet been found practicable to formulate regulations in respect of liaison with scientists in other countries.

11. Financial statements

The following financial statements are appended:

Appendix "A" - Administration expenses of the Board to
31 March 1947.

Appendix "B" - Expenditures, Chalk River Project, to
31 March 1947.

Respectfully submitted this 10th day of June 1947.

Atomic Energy Control Board

By A. MCNAUGHTON
President.

APPENDIX "A"

Administration Expense, Atomic Energy Control Board, to
31 March 1947

(Vote 505, Demobilization and Reconversion Estimates,
1946-47)

Salaries	\$10,186.21
Other Pay list items	25.75
Travelling Expenses	1,325.64
Printing and Stationery	685.97
Telephone, telegraph and postage	91.60
Miscellaneous	<u>55.65</u>
TOTAL	\$12,370.80

APPENDIX "B"

EXPENDITURES, CHALK RIVER PROJECT,
TO 31 MARCH 1947

31 March 1945 - Expenditures to this date	\$ 2,820,106.82
31 March 1946 - Expenditures, 1 April 1945 to 31 March 1946	14,202,466.82
31 March 1947 - Expenditures, 1 April 1946 to 31 March 1947 (subject to audit)	<u>7,171,067.26</u>
TOTAL	\$24,193,640.90

